INDEX

SOLAR SYSTEM RESEARCH

Volume 5, Numbers 1-4, 1971

SOLAR SYSTEM RESEARCH
Volume 5, Numbers 1-4, 1971
(A translation Astronomicheskii Vestnik)

A

Artem'ev, A. V. - 39
Astapovich, I. S. - 72
Astavin-Razumin, D. L. - 21, 215

B

Bakharev, A. M. - 30
Barabashov, N. P. - 124
Batylova, O. P. - 168
Bekbolotov, A. - 26
Bobrov, M. S. - 97
Bronshten, V. A. - 12
Bryzgalova, T. V. - 211
Bydin, Yu. F. - 81

D

Dagaev, M. M. - 208
Davydov, V. D. - 196
Delov, I. A. - 160

F

Fedynskii, V. V. - 45
Fesenkov, V. G. - 183
Florenskii, K. P. - 4
Frolov, A. I. - 169
Frolov, V. V. - 99

G

Garazha, V. I. - 124

I

Ibragimov, N. B. - 12
Ivanov, A. V. - 4

K

Kashcheev, B. L. - 160
Khomenko, Yu. A. - 34
Kiladze, R. I. - 132
Korovkina, T. L. - 99
Koval', I. K. - 107
Kovshun, I. N. - 155
Kulikova, N. V. - 151
Kuz'min, A. D. - 18, 62

L

Lavrukhina, A. K. - 119
Lebedinets, V. N. - 145
Loskutov, V. M. - 127
Losovskii, B. Ya. - 18, 62

M

Martynenko, V. V. - 99, 211

N

Nesmyanovich, A. T. - 34
Nesterko, N. A. - 221
Novoselova, N. V. - 93

O

Ogurtsov, V. I. - 81

P

Popov, O. S. - 34

R

Radzievskii, V. V. - 39, 208
Rüves, V. G. - 23

S

Safronov, V. S. - 139
Shodiev, U. - 30, 165
Solov'ev, V. E. - 221
Stepashina, O. I. - 104

T

Teifel', V. G. - 187

U

Ustinova, G. K. - 119

W

Witkowski, J. M. - 66

Z

Zolotov, A. V. - 89
Zotkin, I. T. - 203

SOLAR SYSTEM RESEARCH
Volume 5, Numbers 1-4, 1971
(A translation Astronomicheskii Vestnik)

Volume 5, Number 1 January-March, 1971

	Engl.	Russ.
Greeting the 24th CPSU Congress	1	3
Finely Dispersed Cosmic Matter on the Earth—A. V. Ivanov and K. P. Florenskii	4	6
Spectrophotometry of the Continents, Maria, and Polar Caps of Mars with the 2-m Shemakha Observatory Reflector in 1969—V. A. Bronshten and N. B. Ibragimov	12	16
Measurements of the Radio Emission of Uranus at 8.33 mm and Some Properties of the Planet's Atmosphere—A. D. Kuz'min and B. Ya. Losovskii	18	23
Polarization of Light and Color Index of Bennett's Comet—D. L. Astavin-Razumin	21	27
Brightness Bursts of the Comets 1963 III Alcock and 1964 IX Eberhart—V. G. Riives	23	29
Spectrum of a Fireball Observed June 6, 1968—A. Bekbolotov	26	32
Photometric Investigation of Two Meteor Trains—A. M. Bakharev and U. Shodiev	30	37
Relative Photometry of the Solar Corona Observed September 22, 1968—A. T. Nesmyanovich, O. S. Popov, and Yu. A. Khomenko	34	42
Hypothetical Rotation of the Earth by Meteoric Matter and a Possible Empirical Check—A. V. Artem'ev and V. V. Radzievskii	39	49

Volume 5, Number 2 April-June, 1971

Investigations of Meteoric Matter—V. V. Fedynskii	45	57
Measurement of 8.2-mm Ratio Emission from Saturn and Estimate of the Rings' Optical Thickness—A. D. Kuz'min and B. Ya. Losovskii	62	78
On the Origin of Comets—J. M. Witkowski	66	82
Meteor Spectra Recorded in the USSR, 1957-1967—I. S. Astapovich	72	89
Energy Spectra of Electrons in the Simulation of Meteor Phenomena—Yu. F. Bydin and V. I. Ogurtsov	81	98
Propagation Velocity of Air Waves Resulting from the 1908 Tunguska Explosion—A. V. Zolotov	89	107
Fragmentation of Small Meteorite Objects According to Radar Observations N. V. Novovoselova	93	112
Minimal Resolution of Mars Image in Order to Observe Surface Details from the Earth—M. S. Bobrov	97	117
OBSERVATIONS		
Meteor Swarms in March 1969—T. L. Korovkina, V. V. Martynenko, and V. V. Frolov	99	119
Light Curves of Telescopic Meteors—O. I. Stepashina	104	124

Volume 5, Number 3 July-September, 1971

Atmosphere and Surface of Mars – I. K. Koval' 107 129
Depth Distribution of Cosmogenic Isotopes in Lunar Rocks – A. K. Lavrukhina and G. K. Ustinova 119 144
Brightness Distribution in the Equatorial Zone of Mars – N. P. Barabashov and V. I. Garazha 124 150
Interpretation of Photometric Observations of Jupiter – V. M. Loskutov. 127 153
Rotation of the Planets as a Result of Accretion – R. I. Kiladze 132 159
Rotation of Giant Planets while Accreting Gas – V. S. Safronov. 139 167
Intensity of the Dust-Ejection Process in Long-Period Comets – V. N. Lebedinets. 145 174
Theory of Meteor Swarm Formation – N. V. Kulikova 151 181
A Scale of Photometric Meteor Masses for Photographic Observations of Meteors – I. N. Kovshun 155 185
Distribution of Ionization along the Trains of Weak Meteors – I. A. Delov and B. L. Kashcheev 160 190
Effect of the Geomagnetic Field on the Shape of Meteor Trains – U. Shodiev 165 196

OBSERVATIONS

Observations of the Number of Meteors in August 1969 – O. P. Batylova 168 199

Volume 5, Number 4 October-December, 1971

The Gravitational Field, the Contour, and Certain Problems in the Internal Structure of the Moon – A. I. Frolov 169 201
Optical Investigations of the Upper Atmosphere and Interplanetary Space – V. G. Fesenkov 183 217
Optical Characteristics and Composition of Jupiter's Atomsphere. IV. Results of Photoelectric Spectrophotometry in the 6300-8100 Å Range – V. G. Teifel' 187 222
The Nature of the Hellas Region on Mars – V. D. Davydov 196 232
Use of an Optical Shutter to Determine the Occurrence Time of a Meteor – I. T. Zotkin. 203 240
A New Method for the Analytic Solution of the Two-Body Problem – M. M. Dagaev and V. V. Radzievskii 208 245

OBSERVATIONS

Meteor Abundance in the First-to-Seventh-Magnitude Range According to Visual Observations – T. V. Bryzgalova and V. V. Martynenko. 211 248
Two-Channel Photoelectric Observations of Perseids 1970 at Kuchin – D. L. Astavin-Razumin 215 252
Measurement of the Position Angles and Contact Times for the May 9, 1970 Transit of Mercury over the Solar Disc – N. A. Nesterko and V. E. Solov'ev. 221 257

INDEX

Authors Index, Volume 5, Numbers 1-4, 1971. 227
Tables of Contents, Volume 5, Numbers 1-4, 1971 229